

## MEMORANDUM OF UNDERSTANDING

Under the authority of the Forest and Rangeland Renewable Resources Research Act of 1978 (92 Stat. 353, Public Law 95-307, June 30, 1978), the United States Department of Agriculture, Forest Service, Southern Forest Experiment Station, desires to cooperate with the State of Baden-Wurttemberg, Forest Service Division of the State Ministry of Agriculture, to carry out study No. FS-SO-2203-1.48, a copy attached and made a part of this Memorandum of Understanding.

It is mutually understood that:

Papers will be prepared for publication as often as the results of the study warrant publication. Any publication of these results by either party will give appropriate recognition to the contributions of both parties.

The information gained from this study will be mutually beneficial because it will facilitate the dissemination of research information to interested parties, which is an aim of both parties.

There will be no exchange of funds or international travel involved.

This Memorandum of Understanding may be terminated by either party by giving 60 days notice to the other in writing. Unless so terminated or amended or extended by mutual consent of both parties it will remain in force until December 31, 1982.

This Memorandum of Understanding will be effective as of the last date written below,

USDA, FOREST SERVICE  
SOUTHERN FOREST EXPERIMENT STATION

By LAURENCE E. LASSEN

Date LAURENCE E. LASSEN, Director  
SEP 16 1981

~~STATE OF BADEN-WURTTEMBERG~~  
~~FOREST SERVICE DIVISION OF THE~~  
~~STATE MINISTRY OF AGRICULTURE~~

By \_\_\_\_\_

Date 19.8.1981

FORSTL. VERSUCHS- u. FORSCHUNGSANSTALT  
BADEN-WÜRTTEMBERG  
78 FREIBURG, Sternwaldstraße 16



*P. U. Mauerz*  
Direktor

PL-2203 SEP 16 1981

PL-2203  
AH Loto  
Moore  
~~Mallard~~

4040-1  
(1580)  
September 11, 1981

Dr. Hermann Bogenschütz  
FVA - ABT Waldschutz  
7801 Stegen - Wittental  
West Germany

Dear Dr. Bogenschütz:

Enclosed for your file is an executed copy of our Memorandum of Understanding.

Thank you very much for your cooperation.

Sincerely,

LAURENCE E. LASSEN

LAURENCE E. LASSEN  
Director

Enclosure

✓ bc: PL - 2203, w/cy  
Pineville, RSS w/cy  
MO, F & AM, w/cy (2)

PL-2203

AUG 7 1981

*Lord RK  
Moser  
Mallard*

4040-1

August 5, 1981

Dr. Hermann Bogenschütz  
FVA-ABT Waldschutz  
D-7801 Stegen-Wittental  
West Germany

Dear Dr. Bogenschütz:

Enclosed are two copies of a Memorandum of Understanding to cover our cooperative effort on a study entitled, "The mites associated with IPS typographus--A search for exotic mite predators of the southern pine beetle." If it meets with your approval, please have both copies of the Memorandum of Understanding signed on behalf of the State of Baden-Wurttemberg, Forest Service Division of the State Ministry of Agriculture, and return them to this office. After signature and processing here, an executed copy will be returned for your file.

We greatly appreciate your cooperation on this study.

Sincerely,

WALTER A. HOUGH

*for*  
LAURENCE E. LASSEN  
Director

Enclosure

bc: PL-2203 w/cy

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USDA, FOREST SERVICE  
SOUTHERN FOREST EXPERIMENT STATION

By \_\_\_\_\_

Date \_\_\_\_\_

STATE OF BADEN-WURTTEMBERG  
FOREST SERVICE DIVISION OF THE  
STATE MINISTRY OF AGRICULTURE

By \_\_\_\_\_

Date \_\_\_\_\_

UNITED STATES DEPARTMENT OF AGRICULTURE  
FOREST SERVICE

SO AL

**REPLY TO:** 4050 Research Programs  
(4040)

February 5, 1982  
(RMU 2203)

**SUBJECT:** FS-SO-2203-1.48, The mites associates with Ips typographus-  
a search for exotic mite predators of the southern pine  
beetle, by Moser and Bogenschütz

**TO:**

TO: S. J. Barras, AD-W



Enclosed is an informational copy of subject study plan along  
with the study plan summary and Biometrics routing.

*Bette J. Mallard*

*fr* PETER L. LORIO, JR.  
Project Leader  
Forest Insect Research

Enclosure

PLLorio,Jr./bjm

4500  
FS-SO-2203-1.48  
(Problem 1b)

February 1982

Study Plan Summary

John C. Moser - Alexandria, LA

Hermann Bogenschütz - Stegen-Wittental, BRD

THE MITES ASSOCIATED WITH *IPS TYPOGRAPHUS*--A SEARCH FOR EXOTIC  
MITE PREDATORS OF THE SOUTHERN PINE BEETLE

This study surveys the phoretic mites of *Ips typographus* flying adults with the primary objective of finding one or more exotic predators that could be used to control the southern pine beetle. Secondary objectives are to compile a list of mites phoretic on the flying adults of *Ips typographus* in southern Germany, and to detect any differences in mite species and abundance between the three flight peaks.